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Reviewer: Anne Corrigan

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Application No: 10594597 Version No: 1.0

Input Set:

Output Set:

Started: 2007-08-27 09:28:53.133  
Finished: 2007-08-27 09:28:53.755  
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 622 ms  
Total Warnings: 0  
Total Errors: 0  
No. of SeqIDs Defined: 99  
Actual SeqID Count: 99

# SEQUENCE LISTING

<110> IKEDA, Kazutaka et al.

<120> METHOD OF EVALUATING DRUG SENSITIVITY BY ANALYZING THE  
MU-OPIOID RECEPTOR GENE

<130> 0649-1380PUS1

<140> 10594597

<141> 2007-08-27

<150> PCT/JP05/06701

<151> 2005-03-30

<150> JP2004-106136

<151> 2004-03-31

<160> 99

<170> PatentIn version 3.2

<210> 1

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 1

gttcaactgc taatacctta gcaggaatcg aaacagtgc cccatggcat rctaagagtc 60

actgtactct tcacagacgt gcactcacag aagaaaaaca c 101

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<212> DNA

<213> Homo Sapiens

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aattaaccac tttttccgtg gatcactatt tttatttaaa g 101

<210> 3

<211> 101

<212> DNA

<213> Homo Sapiens

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atgttgcttg tttgagctgt gaactaaatt aaccactttt tccgtggatc rctattttta 60

tttaaagaat gactgaggcc gggcgcggtg gctcacgcct g 101

<210> 4

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 cagatgacga ggtcaggaga tcgagaccat cctggetaac a 101

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<400> 5  
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<210> 6  
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 ggataaattc tttcatatgt gtgtaatcct ataaaccctc t 101

<210> 8  
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 taaaatatat gctaattcatt ttttcaactg aattcaaata ttatgcacat kaatattcat 60  
 atatgtttta tatagaaaga aacacagaga gtgagggagg g 101

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<213> Homo Sapiens

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tatgtttaat atagaaagaa acacagagag tgagggaggg a 101

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<213> Homo Sapiens

<400> 10  
ctaatcattt tttcaactga attcaaatat tatgcacatt aatattcata yatgtttaat 60  
atagaaagaa acacagagag tgagggaggg agtccactat g 101

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<213> Homo Sapiens

<400> 11  
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aacatatgat tcaccaggca taagaagaaa gtttccgtaa t 101

<210> 12  
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<213> Homo Sapiens

<400> 12  
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gagaattgtt acattagttc atggaagaat atgttttaag g 101

<210> 13  
<211> 101  
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<213> Homo Sapiens

<400> 13  
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gaagaaaatt ggagaaacat tattaccttt tcttagatgt t 101

<210> 14  
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<212> DNA  
<213> Homo Sapiens

<400> 14  
 tagggtttca tcaagccaat gtattccctg ccagatttta aggagaaaaa kgcgctggaa 60  
  
 aattgagtga tgtagcccc ctttcttatt tttcactgct a 101

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 acccatgctg tccgaaccgc accgacctgg gcgggagaga c 101

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<210> 17  
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 <213> Homo Sapiens

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<210> 18  
 <211> 102  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (51)..(52)  
 <223> "ac" at positions 51-52 repeats indefinitely

<400> 18  
 acttatgaaa aaggtagttg agcaatatga aggccatgat gtggaattaa acatgctgga 60  
  
 ttctaaaatg tgtccttcct cctctcactc tcttgatcag tt 102

<210> 19  
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 <212> DNA  
 <213> Homo Sapiens

<400> 19  
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 tttgtaagta gtaatagttg gagaaatgtg tgaagaatag g 101

<210> 20  
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 <212> DNA  
 <213> Homo Sapiens

<400> 20  
 ggtcaaaaga taaataagaa ttatatttata accataagaa aggaagaaca kctataaaca 60  
 aaagtcatat atgcaacata aaagaatagg tgagctgcc a g 101

<210> 21  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 21  
 ttctggaagt tccataaaaa tcaacttaat ggggtcaaaca tcgatggttc kcagaagaac 60  
 acaatttttt tcaaaaacga atagcattgt aaattcattt g 101

<210> 22  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 22  
 tacaacaaaa tacaggcaag gtgagtgatg ttaccagcct gagggaagga rggttcacag 60  
 cctgatatgt tggatgatgtc ataagcaaag cagtatttat g 101

<210> 23  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 23  
 tttatatcaa tatagacctc atggaggatc tagctcatgt tgagagggtc rtttttggtc 60  
 cctgaacgaa agcttaatgt gatcgaagtg gactgcaaaa t 101

<210> 24  
 <211> 101

<212> DNA  
 <213> Homo Sapiens

<400> 24  
 ttccacaatt tctttatagc ctttaagtttag ctctgggtcaa ggctaaaaat saatgagcaa 60  
 aatggcagta ttaacacctt atgacataat taaatgttgc t 101

<210> 25  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 25  
 ctctaattac tattattaaa gcactttctt gacattttta tcaaaatagc rrgtcaagaa 60  
 gttaggagat gctctgtatt tggtttaact gtgaactata t 101

<210> 26  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 26  
 acatcactct caaaagttga tctcagtttt ttttacaaga catctgtgga ragttaat 60  
 gggaaagtaa ttgtttcaat tcaatgggaa aaaaaactca a 101

<210> 27  
 <211> 130  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (51)..(80)  
 <223> n represents 11 to 15 repeats of "gt"

<400> 27  
 atcaaaatgg ctattctttc agttctacag tttaaaaaga aaatggttcc nnnnnnnnnn 60  
 nnnnnnnnnn nnnnnnnnnn gcgtgtgata taggcatgtc tctttttgca tgtatggaat 120  
 tagagtaa 130

<210> 28  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 28  
 aaagaaaatg gttccgtgtg tgtgtgtgtg tgtgtgtgcg tgtgatatag rcattgtctct 60



ttttgcatgt atggaattag agtaaagtga ggtttaaaat t 101

<210> 29

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 29

tgatatatat cataacatat tatatatattat attatgatat atatcataac rtgtattatc 60

atattatgat atatatcata acatatatat tatcatatta c 101

<210> 30

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 30

acatgtatta tcatattatg atatatatca taacatatat attatcatat yacgatatat 60

atcataacat attatatatt atcatattat gatatatatc a 101

<210> 31

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (51)..(594)

<223> n at positions 51 to 594 represents 2 to 17 repeats of  
"attatcatattatgacatatatcataatat"

<400> 31

tatgacatat cataatatat attatcatat tatgacatat cgtaatatat nnnnnnnnnnn 60

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 120

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 180

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 300

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 360

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 420

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 480

nnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn nnnnnnnnnnn 540

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnatcaaa 600

aagtcacaga gctcatgcaa gccagtcac cccattgcc agtg 644

<210> 32

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 32

aatatatatt atcatattat gacatatatc ataatatata ttatcatatt rtgacatata 60

tcataatata tatcaaaaag tcacagagct catgcaagcc c 101

<210> 33

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 33

taaaatgtac tctttatttc tcaactgggtt ctccatactg caggctcccc rcatattatt 60

ttcttttttt aactcagctc agaatcctta tgccttttga a 101

<210> 34

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 34

atctaggtag acagccaagt cagatggccc atgcctagaa gctctccatt ytgaactttt 60

gtcagcattg attaaaagaa tcaaatacct tgtagttatc t 101

<210> 35

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 35

cagccaagtc agatggccca tgcctagaag ctctccattt tgaacttttg ycagcattga 60

ttaaaagaat caaatacctt gtagttatct atgatgatac a 101

<210> 36

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 36

ttatgtggac tcaaccacg tatccagtag atgggaaaaa acaaaagcca raataagttt 60

tttagtggtt ccttctgatg aagtttcatg ttgcttgta a 101

<210> 37

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 37

aacaaaagcc aaaataagtt ttttagtggt tccttctgat gaagtttcat rtttgcttgt 60

aataatctcc atttctcaaa tattatgttc cataatagac a 101

<210> 38

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 38

atgcttttca tgggctagga tggtttctcc caagagatga catagtattg yttttgctca 60

tcaggctggt tctcagcaat cattgtttct gcttaatacc a 101

<210> 39

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 39

gctcctagta cgaattatct ggcattgtga gagcaacttt gtcttcaagt rggacctgat 60

ctatcttttt ccacaaatgt catgtgtgtg aacaagtttc t 101

<210> 40

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 40

attctaaagt aaataataaa taaggtcatt gtcaacgttt ttcattcaaa rccatttttt 60

aacgtaaatt tgctagaacc accttccaat tccaaggcaa g 101

<210> 41

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 41

taataaataa ggtcattgtc aacgtttttc attcaaaacc attttttaac rtaaatttgc 60

tagaaccacc ttccaattcc aaggcaagga gagacattac a 101

<210> 42  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 42  
 ctcaactgga tgggctaagg tttctgataa aatctgaaga taaagaaaat sgaatattct 60  
 gcttttttct tccttctaatt ttcacccttg cctaaggatg a 101

<210> 43  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 43  
 tttttcttcc ttctaatttc acccttgccct aaggatgaga tttcttccca sgttggtatc 60  
 ccagaaatgc agactgtagc tatggggcgg aagctttgtt t 101

<210> 44  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 44  
 ttgcctaagg atgagatttc ttcccagggtt ggtatcccag aaatgcagac ygtagctatg 60  
 gggcggaagc ttgttttctt tacctgatca cttgctgtgg a 101

<210> 45  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 45  
 atttcttccc aggttggtat cccagaaatg cagactgtag ctatggggcg raagctttgt 60  
 ttctttacct gatcacttgc tgtggaaatt ctagcttatt g 101

<210> 46  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 46  
 tcctcttttc cttgccaatc attagaaagg aaagaagagg aaagagactc kctggagcac 60  
 tggtagagtct ctaggaccct gctatcctat cccaacaggg c 101

<210> 47

<211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 47  
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 ctaatgtggc catttgaaac acttctcaac attgaaatag a 101

<210> 48  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 48  
 gaagttttaa aataacctct tctaagacac ggctatgagt aggtaagaga kcattcattc 60  
  
 ccttcaataa tatgactgtg ttgataaaaac tgataaccat t 101

<210> 49  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 49  
 aactgataac cattcacttg caaatgttat tattgaataa gtctcactta kctcatttaa 60  
  
 tattacccaa aagatgctaa caaattctgt ttccacatt g 101

<210> 50  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 50  
 gccaaagcaa cctaagaata ggacatggta gcttaagttt ttcagcttct yaactggcca 60  
  
 cacacacaca agttgtgttt gtacaattct tgagggtcaat c 101

<210> 51  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 51  
 caaacaatat tactgtgttc taagegcttc tgttactcga aaggggtctg rtccagaccc 60  
  
 caaaagaggg ttcttgacc tcatgcaaga aagaattcag g 101

<210> 52  
 <211> 101  
 <212> DNA

<213> Homo sapiens

<220>

<221> misc\_feature

<222> (51)..(51)

<223> "a" repeats indefinitely

<400> 52

ggtttgtttt aagtaagcca ctttcctccc tgcaagttcc cacggagcag aggaggaaac 60

tttttcctgg gagcccacta atcacacagt gaacaaaagg c 101

<210> 53

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 53

taagaaagca aaggaataaa gaatggctac tccataggca gcgtagcccc magggctgct 60

ggttggctat ttttgtggtt atttcttgat tatatgctaa a 101

<210> 54

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 54

gtcgctctgg ttcaaacacc tctgacactt gaattacaaa tataaggacc rttgacactg 60

agattttaag ggaggaaaaa cagattgaca gtggactaaa g 101

<210> 55

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 55

gcaaggtaaag aatcaagtag aaatgataaa gggcaaggaa aaaagatgaa mgcttactca 60

tattaaccat tctaccattg gaattatttg ccaacacacc t 101

<210> 56

<211> 101

<212> DNA

<213> Homo Sapiens

<400> 56

gacagtgggg aaaattcatc ttcatttgt cacatgcact gtaataggaa kgttttagcaa 60

aaaaaacctt ccagagaaag gtggtttcca atattaccta c 101

<210> 57  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens  
  
 <400> 57  
 gcaaaaaaaaa ccttcagag aaaggtggtt tccaatatta cctacaactt sccttgcaat 60  
  
 ttgatttttg aaaggaccta aaagttgaaa acaggctatc a 101

<210> 58  
 <211> 422  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (51)..(372)  
 <223> n at positions 51-372 represents a sequence having 322bp  
 (SEQ ID NO: 99) or deletion

<400> 58  
 taaatgtttt atttaagttt gcattgccca ctaaggctag acattttttt nnnnnnnnnn 60  
  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120  
  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180  
  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240  
  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300  
  
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360  
  
 nnnnnnnnnn nngataaatt cacagggtta caaaatacca aacggaaatg agataagtgg 420  
  
 ta 422

<210> 59  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens  
  
 <400> 59  
 ggcccggcta gacatttttt gataaattca cagggttaca aaataccaaa yggaaatgag 60  
  
 ataagtggta taaaccacag aagatatagg agaagagaaa a 101

<210> 60  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<220>  
 <221> misc\_feature  
 <222> (51)..(51)  
 <223> n represents "a" or deletion

<400> 60  
 tgagataagt ggtataaacc acagaagata taggagaaga gaaaaaaaaa ngaggaaata 60  
 aagaagacaa ctcttttcct aagagtctgg gtaaaattga a 101

<210> 61  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 61  
 ggaaataaag aagacaactc ttttcctaag agtctgggta aaattgaaca yagccatatt 60  
 cactgaacaa catgagtgag cttcattaat ttaagcacag c 101

<210> 62  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 62  
 ccatattcac tgaacaacat gagtgagctt cattaattta agcacagcaa ractgcttta 60  
 attaacaaga ccagagagaa gggagaggag actacatttg t 101

<210> 63  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 63  
 gtgacatatt agacttctta ctttcccca ataaaaaagt gcctgctggg ygcggtggct 60  
 cacgcctgta attccagcac tttgggaggc cgaggcgggc g 101

<210> 64  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 64  
 gcgcggtggc tcacgcctgt aattccagca ctttgggagg ccgaggcggg yggaacacaa 60  
 ggtcaggaga tcaagaccat cctggccaat atggtaaaac c 101



<210> 65  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 65  
 atacaaaatt aggaaggcgt ggtggtgcac gcctgtaatc ccagctagtc rggaggctga 60  
 ggcaggagaa ttgcttgaac tggggaggcg gaagttgcag t 101

<210> 66  
 <211> 101  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (51)..(51)  
 <223> "a" repeats indefinitely

<400> 66  
 caagatcgca gcattgcact ccagcctggg caacagaatg agattgtctc agtgccacat 60  
 gccatgctat gtgcccaaag tttccttcac acaacacagc c 101

<210> 67  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 67  
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 attcttgttc tctgcatct ctgcaggtag caaacctgat t 101

<210> 68  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 68  
 ttgtgtgttt tcttaataaa ctttaccac ttattaaaag aataaaatga rggtggagtt 60  
 aattctgact acgggattcc tttttcactt ttataatgaa c 101

<210> 69  
 <211> 101  
 <212> DNA  
 <213> Homo Sapiens

<400> 69

tccttctaac taaatcttat cataagcaaa tctatgcacc aaattattta rtacaattcc 60

taataacagc tgaaggacca tttatttgaa gcaatgttca c 101

<210> 70

<211> 101

<212> DNA

<213> Homo Sa